WIND CHILL CHART

Temperature (°F)

	Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
	5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
V	10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
	15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
	20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
	25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
	30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
	35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
	/ind 40	(mp	20 20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
	45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
	50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95
	55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97
	60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98
		Fro	STBIT	E OCCURS IN:				30 minutes		10 minutes					5 minutes				

Wind Chill (°F) =
$$35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

T = Air Temperature (°F) **V** = Wind Speed (mph)

The National Weather Service and Meteorological Services of Canada uses a Wind Chill Temperature Index, designed to calculate a more accurate reading of how the cold air feels on the human skin.

The index is based on:

- Wind speed calculated at the average height of the human face, about five feet (the human face is most often exposed to the cold).
- Updated heat transfer theory, which factors heat loss from the body to its surroundings during cold, windy days.
- A consistent standard for skin tissue resistence.
- · Clear night sky conditions.
- · A lowered calm wind threshold from four miles to three miles.

Advisory and Warning Criteria established for use in Eastern Montana (East of the Divide):

Wind Chill Advisories will be issued when the wind chill temperature drops to -20 to -39 degrees and the wind is greater than 10 mph for an hour.

Wind Chill Warnings will be issued when the wind chill temperature drops to -40 degrees or colder and the wind is greater than 10 mph for an hour.

